

WHAT IS CLAIMED IS:

1. A braking system comprising:
 - a brake pedal;
 - a stroke sensor that outputs a stroke signal in response to a stroke of the brake pedal;
 - an accumulator that accumulates a pressurized braking liquid;
 - a proportional pressure controller that controls the pressure of the pressurized braking liquid, and supplies the pressurized braking liquid to a wheel, the proportional pressure controller including a spool; and
 - a push rod connected to the brake pedal and movable between a first position spaced from the spool and a second position contacting the spool, wherein the push rod moves in response to the stroke of the brake pedal in order to contact and push the spool;
 - wherein the proportional pressure controller controls the pressure of the pressurized braking liquid in accordance with the stroke signal before the push rod contacts and pushes the spool, and in accordance with the stroke signal and the motion of the push rod after the push rod contacts and pushes the spool.
2. The braking system according to Claim 1, wherein the push rod is partially made of an elastic material.

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3. The braking system according to Claim 2, wherein the elastic material is a spring.